

## Contents of *Agriculture, Ecosystems and Environment*, Volume 59

VOL. 59 NOS. 1, 2

AUGUST 1996

Winter cover crops in a vegetable cropping system: Impacts on nitrate leaching, soil water, crop yield, pests and management costs L.J. Wyland, L.E. Jackson (Davis, CA, USA) W.E. Chaney (Salinas, CA, USA), K. Klonsky (Davis, CA, USA), S.T. Koike (Salinas, CA, USA) and B. Kimple (Davis, CA, USA) . . . . .	1
Ground-living invertebrate assemblages in native, planted and invasive vegetation in South Africa M.J. Samways, P.M. Caldwell and R. Osborn (Pietermaritzburg, South Africa) . . . . .	19
Assessment of EDU stem injections as a technique to investigate the response of trees to ambient ozone in field conditions N. Ainsworth (Ascot, UK), I. Fumagalli (Milano, Italy), A. Giorcelli (Casale Monferrato, Italy), L. Mignanego (Biassono, Italy), G. Schenone (Milano, Italy) and L. Vietto (Casale Monferrato, Italy) . . . . .	33
Phosphate fertilization primes production of rangeland on brown rendzina soils in the Galilee, Israel Z. Henkin (Kiryat-Shmona, Israel), I. Noy-Meir (Jerusalem, Israel), U. Kafkafi (Rehovot, Israel), M. Gutman and N. Seligman (Bet Dagan, Israel) . . . . .	43
Exposure of a grass-clover mixture to ozone in open-top chambers—effects on yield, quality and botanical composition H. Pleijel, G.P. Karlsson, E. Sild, H. Danielsson, L. Skärby and G. Selldén (Göteborg, Sweden) . . . . .	55
Interaction of multiple VAM fungal species on root colonization, plant growth and nutrient status of tomato seedlings ( <i>Lycopersicon esculentum</i> Mill.) T.T. Edathil, S. Manian and K. Udaiyan (Tamil Nadu, India) . . . . .	63
Use of <sup>13</sup> C and <sup>15</sup> N isotopes to investigate O <sub>3</sub> effects on C and N metabolism in soybeans. Part I. C fixation and translocation R.C. Pausch, C.L. Mulchi (College Park, MD, USA), E.H. Lee (Beltsville, MD, USA), I.N. Forseth and L.H. Slaughter (College Park, MD, USA) . . . . .	69
The effect of night grazing by wigeon ( <i>Anas penelope</i> ) on winter-sown wheat in Japan and the efficacy of black plastic flags as scaring devices S.J. Lane and K. Nakamura (Ibaraki, Japan) . . . . .	81
Potential distribution of <i>Chromolaena odorata</i> (siam weed) in Australia, Africa and Oceania R.C. McFadyen and B. Skarrratt (Brisbane, Qld., Australia) . . . . .	89
Variability in pesticide use as a factor in measuring and bringing about reduction in pesticide usage in apple orchards L.J. Penrose, C.C. Bower and H.I. Nicol (Orange, NSW, Australia) . . . . .	97
Dispersal of <i>Bromus sterilis</i> and <i>Anthriscus sylvestris</i> seed within arable field margins L.J. Rew, R.J. Froud-Williams (Reading, UK) and N.D. Boatman (Fordingbridge, UK) . . . . .	107
Slash-and-burn agriculture, conversion to pasture, and deforestation in two Brazilian Amazon colonies S. Fujisaka, W. Bell, N. Thomas, L. Hurtado and E. Crawford (Cali, Colombia) . . . . .	115
<b>Book Reviews</b>	
Grassland invertebrates. . . . .	131
Sustainable agriculture . . . . .	132
Dryland forestry, planning and management . . . . .	133
Landscape forestry . . . . .	134
<b>Contents of <i>Applied Soil Ecology</i>, Vol. 3 No. 3 . . . . .</b>	<b>137</b>

## VOL. 59 NOS. 3

OCTOBER 1996

Incidence and severity of viral disease symptoms on eastern gamagrass within monoculture and polycultures J.K. Piper, M.K. Handley and P.A. Kulakow (Salina, KS, USA) . . . . .	139
Soil rehabilitation and erosion control through agro-ecological practices on Reunion Island (French Overseas Territory, Indian Ocean) S. Perret, R. Michellon, J. Boyer and J. Tassin (Ile de la Réunion, France) . . . . .	149
Fencerow and forest edge architecture in eastern Ontario farmland R. Fritz and G. Merriam (Ottawa, Ont., Canada) . . . . .	159
Organic resource management in banana-based cropping systems of the Lake Victoria Basin, Uganda M.A. Bekunda (Kampala, Uganda) and P.L. Woomer (Nairobi, Kenya) . . . . .	171
Some effects of polyphagous predators on an outbreak of cereal aphid ( <i>Sitobion avenae</i> F.) and orange wheat blossom midge ( <i>Sitodiplosis mosellana</i> Géhin) J.M. Holland, S.R. Thomas (Fordingbridge, UK) and A. Hewitt (Southampton, UK) . . . . .	181
Fine root mineralization, soil organic matter and exchangeable cation dynamics in slash and burn agriculture in the semi-arid northeast of Brazil A.S.N. Lessa, D.W. Anderson and J.O. Moir (Saskatoon, Sask., Canada) . . . . .	191
Phosphorus storage capacity of uplands, wetlands and streams of the Lake Okeechobee Watershed, Florida K.R. Reddy (Gainesville, FL, USA), E.G. Flaig (West Palm Beach, FL, USA) and D.A. Graetz (Gainesville, FL, USA) . . . . .	203
<b>Short communications</b>	
Reducing nitrogen losses by decreasing mineral fertilisation in horticultural crops of eastern Spain J.N. Pedreño (Madrid, Spain), R. Moral, I. Gómez and J. Mataix (Alicante, Spain) . . . . .	217
Nitrate pollution of groundwater in northern China W.L. Zhang, Z.X. Tian, N. Zhang and X.Q. Li (Beijing, People's Republic of China) . . . . .	223
<b>Announcement</b> . . . . .	233
<b>Contents of <i>Agriculture, Ecosystems and Environment</i>, Volume 59</b> . . . . .	235
<b>Contents of <i>Applied Soil Ecology</i>, Vol. 4 No. 1</b> . . . . .	237

